

DEC 01 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

153206

Thursday, November 10, 2016 10:23:34 AM

N900040100

Setup Start *NS1*

Stop *NS2*

1

Cust Item ID:

Start Date: 11/11/2016 **Start Qty:** 1.00

Required Date: 11/30/2016 **Req'd Qty:** 1.00

*** 1 ***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

0.00

130

Packaging

0.00

Packaging

Packaging

Memo

Identify and pack for shipping as per PPP 647.3702
Location: *hold*

DAS
28
9-89

DAS
27
9-89

DEC 01 2016

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.02

Quality Control

DAS
21
9-89

DEC 01 2016

**DAS
21
9-89**

DEC 01 2016

Picklist Print

Thursday, November 10, 2016 10:23:51 AM

Page 1

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM
REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM
PER REV NC3 15.03.18 JLM VERIFIED BY:DD

IPP
IPP REV:C AS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
601.3082 CR3212-4-1 *601 3082* RIVET CR3212-4-1 647.3903 *647 3903* Deflector Assembly		Purchased	No				Each	0.0000	**	6 130388		NOV 14 2016	DAS 27 8-89 9-89
		Manufactured	No				Each	5.0000	**	1		NOV 14 2016	DAS 27 8-89 9-89
Location Loc Qty Loc Code													
				cck024				5					
				147126				1		1			
				150883				4					
647.3801 *647 3801* 412 Upper Cutter Assembly		Manufactured	No			110	Each	1.0000	**	1		NOV 14 2016	DAS 27 8-89 9-89
Location Loc Qty Loc Code													
				CCK028				1					
				124728				1					
647.3804 *647 3804* Lower Cutter Assy High		Manufactured	No			110	Each	2.0000	**	1		NOV 14 2016	DAS 27 8-89 9-89
Location Loc Qty Loc Code													
				CCK027				2					
				147206				2					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				OTHER : _____			

Picklist Print

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Page 2

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

647.4410 Manufactured No

110 Each

8.0000

1

1

647 4410 ✓

Rail

DAS
28
9-89

**

NOV 14 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK081

8

120986

8

647.4010

Manufactured No

110 Each

12.0000

1

1

647 4010 ✓

Wiper Deflector RH

DAS
28
9-89

**

NOV 14 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

cck060

12

120740

12

647.4011

Manufactured No

110 Each

10.0000

1

1

647 4011 ✓

Wiper Deflector LH

DAS
28
9-89

**

NOV 14 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

cck060

10

120741

10

647.4110

Manufactured No

110 Each

9.0000

1

1

647 4110 ✓

Doubler

DAS
28
9-89

**

NOV 14 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK080

9

120987

9

647.4111

Manufactured No

110 Each

9.0000

1

1

647 4111 ✓

Doubler

DAS
28
9-89

**

NOV 14 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

cck111

9

120743

9

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Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Thursday, November 10, 2016 10:23:52 AM

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

647.4210 Manufactured No

110 Each

8.0000

1 1

647 4210

Bracket LH

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

8

120749

1

121086

7

110 Each

8.0000

1 1

647.4211

Manufactured No

647 4211

Bracket RH

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

8

121134

8

110 Each

7.0000

1 1

647.4311

Manufactured No

647 4311

RH Lower Strut

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK073

7

126397

7

110 Each

11.0000

1 1

647.4310

Manufactured No

647 4310

LH Lower Strut

DAS
28
9-89

Location

Loc Qty

Loc Code

cck066

11

126395

11

**

NOV 14 2016

DAS
27
9-89

**

NOV 14 2016

DAS
27
9-89

**

NOV 14 2016

DAS
27
9-89

**

NOV 14 2016

DAS
27
9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Page 5

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

647.4312 Manufactured No

110 Each 5.0000 1 1

647 4312

LH Upper Strut

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK67

5

147045

5

110 Each 5.0000 1 1

**

NOV 14 2016

DAS
6
27
9-89

647.4313 Manufactured No

647 4313

RH Upper Strut

DAS
28
9-89

Location

Loc Qty

Loc Code

cck068

5

147046

5

110 Each 1,496.000 34 34

**

NOV 14 2016

DAS
6
27
9-89

NAS1149FN832P Purchased No

NAS1149FN832P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

1389

M133769

89

M135058

1300

ST263

107

M135603

107

110 Each 2,867.000 157 157

**

NOV 14 2016

DAS
6
27
9-89

NAS1149F0332P Purchased No

NAS1149F0332P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

343

m133709

343

ST260a

2000

m135948

2000

ST262

524

m135544

524

157

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-07

Purchased

No

110

Each

194.0000

12

12

MS27039-1-07

Screw

**

NOV 14 2016

DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

GA

2

125654

2

ST281

192

m135948

192

12

MS27039-1-10

Purchased

No

110

Each

513.0000

42

42

MS27039-1-10

SCREW

**

NOV 14 2016

DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

GA

17

m129541

17

over006

300

m135774

300

ST280

196

m135603

196

42

MS27039-08-08

Purchased

No

110

Each

327.0000

16

16

MS27039-08-08

Screw

**

NOV 14 2016

DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

CA

8

m130113

8

over006

200

m130325

200

ST278

119

m130113

119

16

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : _____			

Picklist Print

Thursday, November 10, 2016 10:23:52 AM

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-09

Purchased

No

110

Each

269.0000

14

14

MS27039-1-09

Screw

**

NOV 14 2016

DAS

27

9-89

DAS
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

55

124859

55

ST280

180

m111650

2

m125646

20

m125654

53

m135036

105

MS27039-08-11

Purchased

No

110

Each

371.0000

2

2

MS27039-08-11

SCREW

**

NOV 14 2016

DAS

27

9-89

DAS
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

250

m135864

250

ST278

121

m134676

121

MS24694-S49

Purchased

No

110

Each

175.0000

1

1

MS24694-S49

Screw

**

NOV 14 2016

DAS

27

9-89

DAS
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST284

175

m129499

100

m129702

75

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Thursday, November 10, 2016 10:23:52 AM

Page 8

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

MS24694-C53

Purchased

No

110

Each

26.0000

8

8

MS24694-C53

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST285

26

m129702

26

NOV 14 2016

DAS
6
9-89

DAS
27
9-89

601.3073

Purchased

No

110

Each

5.0000

1

1

601 3073

Connector

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK099

5

M135532

5

NOV 14 2016

DAS
6
9-89

DAS
27
9-89

AN3-4A

Purchased

No

110

Each

246.0000

3

3

AN3-4A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST350

246

m135704

246

NOV 14 2016

DAS
6
9-89

DAS
27
9-89

AN3-11A

Purchased

No

110

Each

108.0000

8

8

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

100

m135767

100

ST349

8

m135390

8

NOV 14 2016

DAS
6
9-89

DAS
27
9-89

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Shop Packet Print

Page 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		FAULT CATEGORY Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐							

Picklist Print

Page 9

Thursday, November 10, 2016 10:23:52 AM

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

AN3C10A Purchased No

110 Each 10.0000 2 2

AN3C10A

Bolt

DAS
28
9-89

**

NOV 14 2016

DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

ST349

10

m135056

10

110 Each 35.0000 6 6

CR3212-4-2 Purchased No

CR3212-4-2

Cherry Rivet

DAS
28
9-89

**

NOV 14 2016

DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

ST320

35

M130388

35

110 Each 100.0000 17 17

CR3212-4-3 Purchased No

CR3212-4-3

Cherry Rivet

DAS
28
9-89

**

NOV 14 2016

DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

CCK003

100

m135408

100

110 Each 0.0000 4 4

CR3212-4-4 CR3212-4-04 Purchased No

CR3212-4-4

CHERRY RIVET

DAS
28
9-89

**

NOV 14 2016

DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

CCK003

272

123785

272

110 Each 272.0000 12 12

CCR264SS3-04 Purchased No

CCR264SS3-04

Rivet

DAS
28
9-89

**

NOV 14 2016

DAS 6 27
9-89 9-89

Thursday, November 10, 2016 10:23:52 AM

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Page 10

Thursday, November 10, 2016 10:23:52 AM

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

CCR264SS-3-03

Purchased

No

110

Each

134.0000

16

16

CCR264SS-3-03

Cherry Rivet

**

NOV 14 2016
DAS 27
8-89 9-89

Location

Loc Qty

Loc Code

LG001

87

m128606

25

m134023

62

ST321

47

m135127

47

110

Each

300.0000

13

13

CR3213-4-2

Purchased

No

CR3213-4-2

Cherry Rivet

**

NOV 14 2016

Location

Loc Qty

Loc Code

CCK003

100

m135979

100

over003

100

m135704

100

ST320

100

m134058

100

110

Each

417.0000

32

32

CR3213-4-3

Purchased

No

CR3213-4-3

Rivet, Cherry

**

NOV 14 2016

Location

Loc Qty

Loc Code

CCK003

300

m135470

100

m136042

200

ST319

117

123301

7

m131340

10

m135135

100

DAS
28
9-89

DAS
28
9-89

DAS
28
9-89

Thursday, November 10, 2016 10:23:52 AM

Shop Packet Print

Page 10

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Page 11

Thursday, November 10, 2016 10:23:53 AM

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-4
Purchased No
CR3213-4-4
Rivet, Cherry

110 Each 299.0000 19 19

**

NOV 14 2016

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST319

299

M130388

35

M134962

6

M135536

258

CR3213-4-5
Purchased No
CR3213-4-5
Rivet

110 Each 225.0000 42 42

**

NOV 14 2016

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

CCK003

100

M129913

100

ST319

125

M129913

125

CR3213-4-8
Purchased No
CR3213-4-8
Rivet

110 Each 44.0000 4 4

**

NOV 14 2016

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST319

44

123785

44

MS21042-3
Purchased No
MS21042-3
Nut

110 Each 0.0000 79 79

**

NOV 14 2016

DAS 6 27 9-89

DAS 28 9-89

MS21042-08
Purchased No
MS21042-08
USE MS21042L08

110 Each 0.0000 18 18

**

NOV 14 2016

DAS 6 27 9-89

DAS 28 9-89

Thursday, November 10, 2016 10:23:53 AM

Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

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Thursday, November 10, 2016 10:23:53 AM

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047L06

Purchased

No

110

Each

55.0000

6

6

MS21047L06

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

50

m135671

50

ST303

5

m131340

5

NOV 14 2016

DAS
27
9-89

MS21047L08

Purchased

No

110

Each

24.0000

6

6

MS21047L08

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

24

m129702

4

m135566

20

NOV 14 2016

DAS
27
9-89

MS21047-3

Purchased

No

110

Each

189.0000

4

4

MS21047-3

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

189

m135603

9

m135774

90

m136047

90

NOV 16 2016

DAS
27
9-89

MS21071L3

Purchased

No

110

Each

115.0000

4

4

MS21071L3

ANCHOR NUT

DAS
28
9-89

Location

Loc Qty

Loc Code

S299

100

125654

100

ST299

15

m129702

15

NOV 14 2016

DAS
27
9-89

Thursday, November 10, 2016 10:23:53 AM

Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER :	

Picklist Print

Thursday, November 10, 2016 10:23:53 AM

Work Order ID: 153206

153206

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/11/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

601.3083 Manufactured No

110 Each

7.0000

1 1

DAS
6
9-89

DAS
27
9-89

601 3083

Adhesive Rubber Seal

DAS
28
9-89

Location

Loc Qty

Loc Code

cck009

7

150862

6

m134349

1

NOV 14 2016

600.1012 Purchased No

110 Each

15.0000

1 1

DAS
6
9-89

DAS
27
9-89

600 1012

Sealant PR1425B2 (#654 sem)

Location

Loc Qty

Loc Code

cck017

15

m135407

1

m135600

4

m135840

10

NOV 14 2016

601.2045 Purchased No

110 Each

11.0000

1 1

DAS
6
9-89

DAS
27
9-89

601 2045

RTV (LOCTITE 598)

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK096

3

m135628

3

GA

8

m134260

8

NOV 14 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

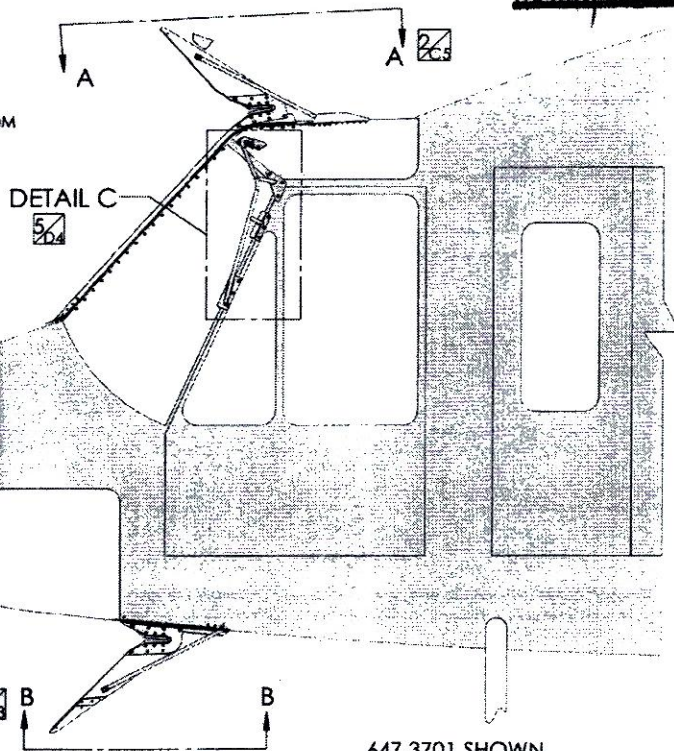
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UNINCORPORATED ECN(S)

02228, 04845, 04880

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 IF REQD, USE F/N 32 TO CONNECT CO-AXIAL CABLE.
- 3 VENDOR : ONLINECOMPONENTS.COM
- 4 AT CUSTOMERS OPTION, INSTALL F/N 56 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 5 APPLY F/N 55 TO FAYING SURFACES.
- 6 VENDOR : MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER



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SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 153206

VCL
TSL
1/11/10

REF	REF	REF	REF	56	647.3701	GPS MOUNT KIT	
A/R	A/R	A/R	A/R	55	601.2045	RTV	LOCITE 598
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PR-1425 CLASS 5.8
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	MIL-6-506A5
4	4	4	4	52	601.2957	NUTPLATE	MS2107113
4	4	4	4	51	600.0795	NUTPLATE	MS2104733
6	6	6	6	50	601.3066	NUTPLATE	MS2104708
6	6	6	6	49	601.3065	NUTPLATE	MS2104706
18	18	18	18	48	601.2973	LOCKNUT	MS2104208
79	79	79	79	47	601.2943	LOCKNUT	MS2104237
4	4	4	4	46	601.2364	CHERRY RIVET	CR3213-4-8
28	28	42	42	45	601.1183	CHERRY RIVET	CR3213-4-5
16	16	19	19	44	601.1915	CHERRY RIVET	CR3213-4-4
24	24	32	32	43	601.0790	CHERRY RIVET	CR3213-4-3
31	31	13	13	42	601.1039	CHERRY RIVET	CR3213-4-2
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L SPEC.

16	16	16	16	41	601.2207	NUTPLATE RIVET	CCR26455-3-03
12	12	12	12	40	601.2491	NUTPLATE RIVET	CCR26455-3-04
7	7	4	4	39	601.1066	CHERRY RIVET	CR3212-4-4
17	17	17	17	38	601.1065	CHERRY RIVET	CR3212-4-3
5	5	6	6	37	601.1604	CHERRY RIVET	CR3212-4-2
6	6	6	6	36	601.3082	CHERRY RIVET	CR3212-4-1
2	2	2	2	35	601.1874	BOLT	ANSI C10A
8	8	8	8	34	601.2826	BOLT	ANSI-11A
3	3	3	3	33	601.2823	BOLT	ANSI-4A
1	1	1	1	32	601.3073	CONNECTOR	082-4440
8	8	8	8	31	601.2419	SCREW	MS2469AC53
1	1	1	1	30	601.3070	SCREW	MS2469A-549
2	2	2	2	29	601.2893	SCREW	MS27039-08-1
14	14	14	14	28	601.3069	SCREW	MS27039-1-09
16	16	16	16	27	601.2263	SCREW	MS27039-0808
42	42	42	42	26	601.1365	SCREW	MS27039-1-10
12	12	12	12	25	601.2198	SCREW	MS27039-1-07
157	157	157	157	24	601.1607	WASHER	NAS1149P0002P
34	34	34	34	23	601.2764	WASHER	NAS1149P0002P
1	1	1	1	22	647.4313	RH UPPER STRUT	
1	1	1	1	21	647.4312	LH UPPER STRUT	
1	1	1	1	20	647.4310	LH LOWER STRUT	
1	1	1	1	19	647.4311	RH LOWER STRUT	
1	1	1	1	18	647.4212	PLATE	
1	1	1	1	17	647.4211	BRACKET RH	
1	1	1	1	16	647.4210	BRACKET LH	
1	1	1	1	15	647.4116	SHIM	
2	2	2	2	14	647.4115	SHIM	
2	2	2	2	13	647.4114	SHIM	
1	1	1	1	12	647.4113	CLIP	
1	1	1	1	11	647.4112	CLIP	
1	1	1	1	10	647.4111	DOUBLER	
1	1	1	1	9	647.4110	DOUBLER	
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH	
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH	
1	1	1	1	6	647.3915	DEFLECTOR	
1	1	1	1	5	647.4410	RAIL	
1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH	
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW	
1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY	
1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY	
					647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH	
					647.3703	204, 205, 212 CABLE CUTTERS KIT LOW	
					647.3702	412 CABLE CUTTERS KIT HIGH	
					647.3701	412 CABLE CUTTERS KIT LOW	
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L SPEC.

QTY

NEXT ASSY (S)

ORIGINAL DATE: 1/15/04 BY: JH-2040
DRAWN BY: J. JACKSON CHECKED: D. BARRON
DESIGNED BY: J. JACKSON
APPROVED BY: J. JACKSON
CONTRACT NO.:
DATE: 01/15/04
SCALE: NONE
SHEET: 1 OF 5

APICAL INDUSTRIES
2808 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

412 CABLE CUTTERS KIT

204, 205, 212 CABLE CUTTERS KIT LOW

647.3700

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

153206

Page 1

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____ **Run** **Start** ***NR1***
 QC: _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____ **Stop** ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.3700	NC3								
100		0.00					DAS 21 9-89	NOV 14 2016	
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork		Photocopy bluefile & type labels per PPP 647.3702							
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.01							
Quality Control									